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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/740,288	12/19/2000	Stephen M. Allen	BB1429 US NA	8577
23906 75	90 01/02/2002			
E I DU PONT DE NEMOURS AND COMPANY LEGAL DEPARTMENT - PATENTS 1007 MARKET STREET			EXAMINER	
			WALICKA, MALGORZATA A	
WILMINGTON, DE 19898			ART UNIT	PAPER NUMBER
			1652	ר ד
			DATE MAILED: 01/02/2002	,

Please find below and/or attached an Office communication concerning this application or proceeding.

•		1 4 11 11		Angline (Ala)			
		Application	No.	Applicant(s)			
. Office Action Summary		09/740,288		ALLEN ET AL.			
		Examiner		Art Unit			
		Malgorzata A		1652			
Period fo	The MAILING DATE of this communication app r Reply	ears on the co	over sneet with the C	orrespondence address			
THE N - Exten after: - If the - If NO - Failur - Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, y within the statutory vill apply and will ex y cause the applicat	however, may a reply be tim y minimum of thirty (30) day: pire SIX (6) MONTHS from ion to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)🖂	Responsive to communication(s) filed on 19 L	December 200	<u>00</u> .				
2a) <u></u> ☐	This action is FINAL . 2b) Th	is action is no	n-final.				
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	Claim(s) 1-23 is/are pending in the application	١.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)[Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)⊠	Claim(s) 1-23 are subject to restriction and/or e	election requir	rement.				
Application Papers							
9) 🗌 -	The specification is objected to by the Examine	r.					
10) 🔲 🗆	Γhe drawing(s) filed on is/are: a)□ accep	oted or b) 🗌 ob	jected to by the Exa	miner.			
	Applicant may not request that any objection to the						
11) 🔲 🗆	The proposed drawing correction filed on	_ is: a)∐ appı	roved b)☐ disappro	oved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
) The translation of the foreign language pro						
Attachment	•						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5)		/ (PTO-413) Paper No(s) Patent Application (PTO-152)			

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

- 1. Claim 1-15 and 21, drawn to polynucleotides encoding polypeptides having at least 85% identity to SEQ ID NO:2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 and 32, or polynucleotides comprising SEQ ID NO:1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 35, 27, 29 and 31, to their complements and cells transformed with these polynucleotides, classified in class 435, subclass 419.
- II. Claim 16-20, drawn to a polypeptide of at least 50 amino acids having at least 85% identity to an amino acid sequence consisting of: SEQ ID NOs: 2, 4, 6, 8, 10, 12, 14 and 16 or a polypeptide of at least 100 amino acids having at least 85% identity to an amino acid sequence consisting of SEQ ID NOs: 18, 20, 22, 24, 26, 28, 30, and 32, classified in class 530, subclasses 300 and 350.
- III. Claim 22 drawn to a method for altering the level of biotin synthase expression in a host cell, classified in class 435, subclass 468.
- IV. Claim 23 drawn to a method for evaluating a compound for its ability to inhibit the activity of a biotin synthase, classified in class 435, subclass 69.2.

Groups I and II are directed to independent chemical entities that require different search in the patent and non-patent literature as indicated by their different classification.

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Group III and IV are two independent methods having different steps and products. The methods cannot be practiced together as revealed by the specification.

Inventions I, and III and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product, the DNA molecules encoding polypeptides having a biotin synthase activity can be used as DNA probes and not for altering the level of biotin synthase expression in the cell or for evaluating a compound for its ability to inhibit the activity of a biotin synthase.

Invention of Group I and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions, DNA of Group I and the method of evaluating a compound for its ability to inhibit the activity of a biotin synthase of Group IV are not capable of use together.

Invention of Group II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions, polypeptides of Group II and altering the level of biotin synthase expression (Group III) are not capable of use together.

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Inventions II and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product, the polypeptides of Group II can be used in a materially different process such as production of antibodies.

Because the inventions I - IV are distinct for the reasons given above, have different classification and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim 21 links inventions 1 and 3 and 4. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim, the 21st claim.

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Upon the allowance of the linking claim, the restriction requirement as to the linked inventions shall be withdrawn and any claims depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

This application contains claims directed to the following patentably distinct species of the claimed invention:

plant species	nucleotide sequence	amino acid sequence
barley	1, 17	2, 18
maize	3, 5, 7, 19, 21, 23	2, 4, 8, 20, 22, 24
prickly popy	9, 25,	10, 26
soy bean	9, 27, 29	12, 28, 30
wheat-common	15, 31	14, 32.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed plant species and relevant nucleotide or amino acid sequences for prosecution on the merits

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to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-23 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Malgorzata A. Walicka, Ph.D., whose telephone number

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is (703) 305-7270. The examiner can normally be reached Monday-Friday from 10:00

a.m. to 4:30 p.m.

If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, Ph.D. can be reached on (703) 308-3804. The fax number for this Group is (703) 305-3014.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionists whose telephone number is (703) 308-0196.

Malgorzata A. Walicka, Ph.D.

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Patent Examiner

PONNATRAPU ACHUT MUTTHY
SUPERVISORY PLOTEST E MEMBER
TECHNOLOGY PROPERTY E MEMBER

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